

ARNOLD & PORTER LLP



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555 Twelfth Street, NW Washington, DC 20004-1206

March 27, 2007

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Re:

U.S. Patent Application No. 10/554,287 Int'l Filing Date: November 6, 2003

Title: Method and Compounds for Identifying Anti-HIV

Therapeutic Compounds
Applicants: Gabriel BIRKUS *et al.*

Atty. Docket: 18477.057

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office (USPTO):

- 1. an Information Disclosure Statement;
- 2. a Form PTO-1449 (listing 144 references and supplying 130 references); and
- 3. a Return postcard.

Please stamp the postcard with the filing date of these documents and return it to our courier.

In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned. Applicants do not believe any fees are due in conjunction with this filing. However, if any fees are required in the present application, including any fees for extensions of time, then the Commissioner is hereby authorized to charge such fees to Arnold & Porter LLP Deposit Account No. 50-2387, referencing matter number 18477.057. A duplicate copy of this letter is enclosed.

Respectfully submitted,

David R. Marsh (Reg. No. 41,408) Zhiqiang Zhao (Reg. No. L0117) Lisa A. Adelson (Reg. No. 51,204)

Attachments



In re application of:

Gabriel BIRKUS et al.

Group Art Unit: Not Yet Assigned

Appln. No.: 10/554,287

Examiner: Not Yet Assigned

Int'l. Filing Date: November 6, 2003

Atty. Docket: 18477.057

Title: Method and Compositions for

Identifying Anti-HIV Therapeutic

Compounds

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

The attention of the Examiner is invited to consider the references listed on the attached Form PTO-1449.

Copies of the references are submitted herewith, except that copies of the U.S. patents and published applications listed on the attached Form PTO-1449 are not submitted herewith, in accordance with the Strategic Plan Final Rule, 69 Fed. Reg. 56481-56547 (September 21, 2004), effective October 21, 2004.

It is respectfully requested that the information above be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

Gabriel BIRKUS et al. Appln. No.: 10/554,287 Page 2

CERTIFICATION AND/OR FEE

Because this Information Disclosure Statement is being submitted prior to issuance of the first action on the merits of the above-captioned application, no certification or fee is required.

Respectfully submitted,

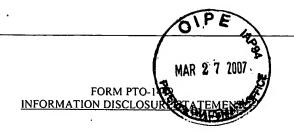
David R. Marsh (Reg. No. 41,408) Zhiquiang Zhao (Reg. No. L0117)

Lisa A. Adelson (Reg. No. 51,204)

Date: March 27, 2007

ARNOLD & PORTER LLP

Attn: IP Docketing 555 Twelfth Street, N.W. Washington, D.C. 20004-1206 (202) 942-5000 telephone (202) 942-5999 facsimile



ATTY. DOCKET NO. APPLICATION NO. 18477.057 10/554,287

APPLICANTS

Gabriel BIRKUS et al.

INT'L. FILING DATE GROUP

November 6, 2003 Not Yet Assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	REFERENCE PROVIDED*
	AA1	5,413,996	05/09/1995	Bodor	not required, per 69 Fed. Reg. 56481
	AB1	5,670,497	09/23/1997	Bold et al.	not required, per 69 Fed. Reg. 56481
	ACI	5,750,343	05/12/1998	Maag et al.	not required, per 69 Fed. Reg. 56481
	AD1	5,750,493	05/12/1998	Sommadossi et al.	not required, per 69 Fed. Reg. 56481
	AE1	5,874,577	02/23/1999	Chen et al.	not required, per 69 Fed. Reg. 56481
	AF1	5,914,332	06/22/1999	Sham et al.	not required, per 69 Fed. Reg. 56481
	AG1	6,072,053	06/06/2000	Vince et al.	not required, per 69 Fed. Reg. 56481
	AHl	6,312,662	11/06/2001	Erion et al.	not required, per 69 Fed. Reg. 56481
	All	6,319,946	11/20/2001	Hale et al.	not required, per 69 Fed. Reg. 56481
	AJ1	6,767,900	07/27/2004	Ubasawa et al.	not required, per 69 Fed. Reg. 56481
	AK1	2001/031773	10/18/2001	Camden	not required, per 69 Fed. Reg. 56481
	AL1	2002/0119443 A1	08/29/2002	Becker et al.	not required, per 69 Fed. Reg. 56481
	AM1	2003/109498	06/12/2003	Yuasa et al.	not required, per 69 Fed. Reg. 56481
	AN1	2004/0121316 A1	06/24/2004	Birkus et al.	not required, per 69 Fed. Reg. 56481

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	REFERENCE PROVIDED*	TRANSLAT	TION
	A01	0 267 050 A2	05/11/1988	Europe			Yes No
	AP1	0 441 192 A2	08/14/1991	Europe		x (abstract only)	Yes No
	AQ1	0 465 297 A1	01/08/1992	Europe			Yes No
	AR1	0 531 597 A1	03/17/1993	Europe			Yes No
	AS1	0 632 048 A1	01/04/1995	Europe			Yes No
	AT1	0 786 455 A1	07/30/1997	Europe	1		Yes No
	AU1	0 852 233 A1	07/08/1998、	Europe			Yes No
	AV1	0 919 562 A1	06/02/1999	Europe			Yes No
	AW1	1 295 879 A1	03/26/2003	Europe			Yes No

EXAMINER DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>

ATTY. DOCKET NO. APPLICATION NO. 18477.057 10/554,287

APPLICANTS

Gabriel BIRKUS et al.

INT'L. FILING DATE GROUP

November 6, 2003 Not Yet Assigned

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	REFERENCE PROVIDED*	TRANSLAT	ION
	AXI	WO 88/06158	08/25/1988	PCT		x (abstract only)	Yes No
	AY1	WO 91/19721	12/26/1991	PCT			Yes
	AZI	WO 92/00988	01/23/1992	PCT			Ye: No
	AA2	WO 92/18520	10/29/1992	PCT		x (abstract only)	Ye: No
	AB2	WO 93/12123	06/24/1993	PCT			Ye: No
	AC2	WO 93/24510	12/09/1993	PCT		x (Abstract only)	Ye: No
	AD2	WO 96/14314	05/17/1996	PCT			Ye No
	AE2	WO 96/40156	12/19/1996	PCT			Ye No
	AF2	WO 97/15588 A1	05/01/1997	PCT			Yes No
	AG2	WO 98/04569	02/05/1998	PCT			Yes No
11 TO 1 TO 1	АН2	WO 98/11906	03/26/1998	PCT			Yes No
	AI2	WO 99/62921	12/09/1999	PCT			Yes No
	AJ2	WO 00/04033	01/27/2000	PCT			Yes No
	AK2	WO 00/52015	08/09/2000	PCT			Yes No
	AL2	WO 01/13957 A2	03/01/2001	PCT			Yes No
	AM2	WO 01/13957 A3	03/01/2001	PCT			Yes No
	AN2	WO 01/17982 A1	03/15/2001	PCT			Yes No
	AO2	WO 01/19320 A2, A3	03/22/2001	PCT			Yes No
	AP2	WO 01/39724 A2	06/07/2001	PCT			Yes No
	AQ2	WO 01/39724 A3	10/18/2001	PCT			Yes No
	AR2	WO 01/46204 A1	06/28/2001	PCT			Yes No

^{*}Copies of the listed references are either submitted herewith or were previously cited by or submitted to, the Office in a prior application. Pursuant to 37 C.F.R. § 1.97(d) and MPEP §609, the indicated reference may have been previously cited by or submitted to, the Office in a prior application, where the prior application is identified by its U.S. Application Number in this Information Disclosure Statement.

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	AS2	WO 01/64693 A1	09/07/2001	PCT		1 ,	Ye No
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	AU2	WO 01/96354 A1	12/20/2001	PCT		1. A	Ye No
	AV2	WO 02/03997 A1	01/17/2002	PCT			Ye
	AW2	WO 02/06292 A1	01/24/2002	PCT			Ye No
	AX2	WO 02/08241 A2	01/31/2002	PCT			Ye No
	AY2	WO 02/103008 A2	12/27/2002	PCT			Ye No
	AZ2	WO 02/103008 A3	11/27/2003	PCT			Ye No
	AA3	WO 02/14344 A2	02/21/2002	PCT			Ye No
	AB3	WO 02/057425 A2	07/25/2002	PCT		1	Ye
	AC3	WO 02/100415 A2, A3	12/19/2002	PCT			Ye No
	AD3	WO 03/028737 A1	04/10/2003	PCT			Ye No
	AE3	WO 03/050129 A1	06/19/2003	PCT		1	Ye No
	AF3	WO 03/059255 A2	07/24/2003	PCT			Ye No
	AG3	WO 03/064383 A2	08/07/2003	PCT			Ye No
	АН3	WO 03/066005 A2	08/14/2003	PCT			Ye No
	AI3	WO 03/080078 A1	10/02/2003	PCT '			Ye No
	AJ3	WO 03/090690 A2	11/06/2003	PCT			Ye No
	AK3	WO 04/096234 A2	11/11/2004	PCT			Ye No
	AL3	WO 04/096818 A2	11/11/2004	PCT			Ye No
	AM3	WO 04/096818 A3	11/11/2004	PCT			Ye. No

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AC	Abdel-Meguid et Virus-1 Protease l	on of Human Immunodefic metric Phosphinate. Synth ", Biochemistry, 32(31):79	esis			
AI	Allen et al., "CI-1	bitor of MEK	552), a Targeted Signal K (MAPKK)", Seminars in 5-116 (2003)	!		
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AS	1777 (Immucillin	-H)—A Nove ve Agent", <i>Ir</i>				
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	Charvet et al., "Inhibition of Hur	man Immunodeficiency Virus	
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	Reduces NK and CD8+ Cell Nur		
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	the Virus Replicative Cycle", Bio		
	Pharmacotherapy, 50(5):207-21:		
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	Current Medicinal Chemistry, 8((13):1543-1572 (2001)	
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AF4	Transition State Analogues of Hu	uman Purine Nucleoside	
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	Gorin et al., "A Novel Ester	rification Procedure Applied to	
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AO4	Derivatives of Heterocyclic	Bases", Collect. Czech. Chem.	
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		for International Application No.	
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AR4		for International Application No.	
AKT	PCT/US2004/035084, maile	ed March 2, 2005	
ER			DATE CONSIDERED

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AS4	International Search Report for PCT/US2004/035085, mailed	for International Application No. d March 2, 2005	
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AV4	Karpenko et al., "Synthesis a Acyclovir Phosphonates", Na Acids, 22(3):319-328 (2003)		
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		Kinsky et al., "Circumvention	of the Methotrexate Transport		
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		Ko et al., "Efficient Synthesis	of Novel Carbocyclic		
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	AE5	Kofoed et al., "Regiosomers or	f 2',3'-Dideoxynucleosides oxy)ethyl Nucleosides", <i>Bulletin</i>		
	AF5	Kraus, "New Phosphonate And Dideoxycytidine (BCH-189) S	alogues of 3'-thia-2',3'-		
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	AI5	McGuigan et al., "Synthesis ar Novel Chain-Extended Phosph	nd Anti-HIV Activity of Some noramidate Derivatives of d4T sis as a Rapid Predictive Test for	·	
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<u> INI</u>			el BIRKUS et al.	
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	AQ5 Synthesis of PNP405: A Pu		eoside Phosphorylase	
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		Ray et al., "Role of Purine Nucleosid	le Phosphorylase in	
	AR5	Interactions between 2', 3'-Dideoxyi	nosine and Allopurinal,	
	AKS	Ganciclovir, or Tenofovir", Antimicr	obial Agents and	
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^{*}Copies of the listed references are either submitted herewith or were previously cited by or submitted to, the Office in a prior application. Pursuant to 37 C.F.R. § 1.97(d) and MPEP §609, the indicated reference may have been previously cited by or submitted to, the Office in a prior application, where the prior application is identified by its U.S. Application Number in this Information Disclosure Statement.

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		18477.057	10/554,287
FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT		APPLICANTS	
		Gabriel BIRKUS et al.	
		INT'L. FILING DATE	GROUP
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